

ZHELTOV, YU.P. (Moscow)
An Approximated Method of Calculating the Dimensions of a Fissure AUTHOR: TITLE: which is Formed by the Break of a Layer brought about by Hydraulic Means. (Ob odnom priblishennom metode rascheta razmerov treshchin, obrazuyushchikhsya pri gidravlicheskom razryve plasta, Russian) PERIODICAL: Isvestiin Akad. Nauk SSSR, Otdel. Tekhn. 1957, Vol 21, Nr 3,pp 180-182 (U.S.S.R.) Recolved: 6 / 1957 ·基本性性的企业 Reviewedi 7 /1957 A Paris - Walter that interpretation of the morties Trainer ABSTRACT: A further development of the calculation method proposed by the author in Isvestiia Akad Nauk SSSR, Otdel. Tekhn. 1955, Nr 5, is described. In the first chapter the general conditions and the determining of the boundary displacements of a horizontal fissure are discussed. It is taken for granted that on the boundaries of the fissure a normal stress acts which is distributed according to the law p(r). In the undamaged space a state of stress is present which is due to the rock pressure on = y(H - s). y is the weight of the rock, H is the stratification depth of the layer. The fissure plane Aleman de de la comp corresponds to the plane s = 0. The perpendicular boundary shifts (TABLYM SE of the fissure w(r) at s = 0 under the influence of the stresses TOWN HISTORY are assumed so that w (r) = 0 is located everywhere outside of the APATTABIA: fissure. The problem of mixed boundary conditions is converted Com 47 to one with homogeneous boundary conditions. The stress ϕ (r) is Card 1/2

	Vash		P.; BARENBLATT, G.I.		
	35 no.1	sm of hydraulic fra :44-53 Ja 157.	cturing of formation	s. Weft.khos. (MLRA 10:2)	
		(Oil wells) (Petr	oleum engineering)		
是是在1964年1月1日					

Theoretical Principles of Hydraulic Fracturing of Oil Strata.

ReportA submitted at the Fifth World Petroleum Congress, 30 May
5 June 1959. New York City.

ZHELITOV, Yu. P.

"Restoration of Bottom-hole Pressure Under Conditions of Varying Permeability of Formations in the Bottom-hole Zone and Beyond the Oil Well"

Transactions of the Petroleum Institute, Acad. Sci. USSR, v. 11, Oil Field Industry, Moscow, Izd-vo AN SSSR, 1958. 346pp.

APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R002064710009-2"

BOV/24-58-11-11/42

Dorozhkin, V. S., Zheltov, Yu. V. and Zheltov, Yu. P. AUTHORS:

(Moscow)

On the Movement of a Mixture of Liquid with Sand in the TITLE:

Well and in the Crack During Hydraulic Fracture of an Oil Bearing Stratum (O dvizhenii smesi zhidkosti s peskom v skvazhine i treshchine pri gidravlicheskom

razryve neftenosnogo plasta)

PERIODICAL: Izvestiya Akademii Nauk SSSR, Otdeleniye Tekhnicheskikh

Nauk, 1958, Nr 11, pp 37-42 (USSR)

ABSTRACT: In the process of hydraulic breaking up of an oil bearing

stratum sand penetrates into the cracks which form in the rocks and the penetrated sand prevents the closing together of these rocks when the liquid pressure is reduced. Until the sand reaches the crack it has to travel a considerable distance along the vertical tube. Therefore, for selecting a rational technology of the process of breaking up a stratum it is important to know the hydro-mechanical picture of motion of a mixture of liquid with sand, both along the crack and in the vertical Special experiments were carried out to verify

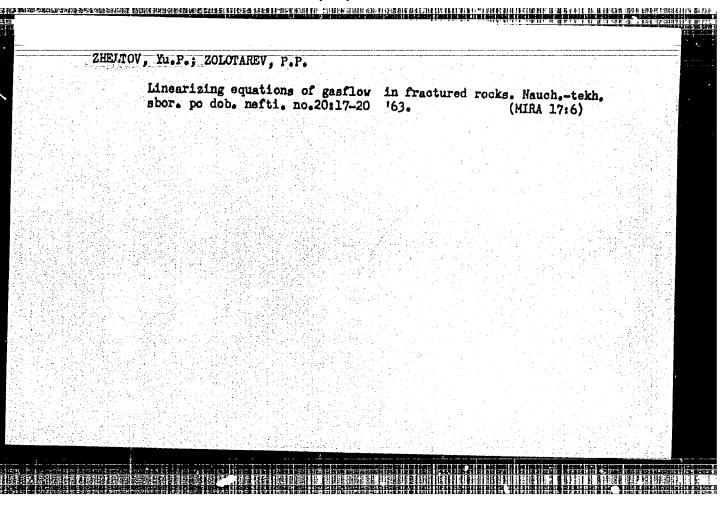
whether available relations are applicable for such Card1/2

On the Movement of a Mixture of Liquid with Sand in the Well and in the Crack During Hydraulic Fracture of an Oil Bearing Stratum

coarsely disperse suspensions as mixtures of liquid and sand; the experimental set-up is shown diagrammatically in the sketch, Fig.1. The basic liquid used in the experiments was glycerine and for obtaining various viscosities the glycerine was diluted with water; furthermore, sulphite-alcohol distillery refuse was used, which is frequently applied in the oil industry as a liquid for breaking up strata. with the fractions 0.6-0.85 mm was used and in some of the experiments sand of other fractions was used. Curves calculated on the basis of the relations expressed by Eqs.(2.1), (2.8) and (2.11) are plotted in the graph, Fig.6; in the same graph the values determined in the here described experiments are also plotted. There are 6 figures and 1 Soviet reference.

ASSOCIATION: Institut nefti AN SSSR (Oil Research Institute, Ac.Sc.USR)

Card 2/2



KRYLOV, A.P., red.; AFANAS'YEVA, A.V., kand. tekhn.nauk, red.;

BORTSOV, Yu.P., doktor tekhn. nauk, red.; BRISKMAN, A.A.,

red., kand. tekhn. nauk; BUCHIN, A.N., kand ekon. nauk,

red.; VIRNOVSKIY, A.S., doktor tekhn. nauk, prof., red.;

ZHELTOV, Yu.P., kard. tekhn. nauk, red.; MAKSIMOV, N.I.,

kand. geol.-miner. nauk, red.; MARKOVSKIY, G.E., inzh.,

red.; MELIK-PASHAVEV, V.S., doktor geol.-miner. nauk, red.;

NIKOLAYEVSKIY, N.M., ucator ekon. nauk, prof, red.;

PETROVSKAYA, A.N., kand. geol.-miner. nauk, red.;

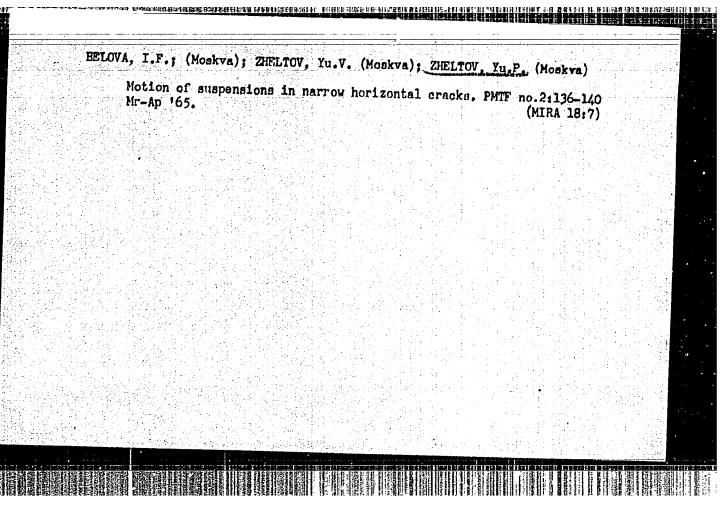
PILATOVSKIY, V.P., doktor fiz.-mat. nauk, red.; ROZENBERG,

M.D., doktor tekhn. nauk, red.; SAFRONOV, S.V., kand. tekhm.

nauk, red.,

[Petroleum production; theory and practice. 196 yearbook] Dobycha nefti; teoriia i praktika. Ezhegodnik 1963. Moskva, Nedra, 1964. 302 p. (MIRA 17:9)

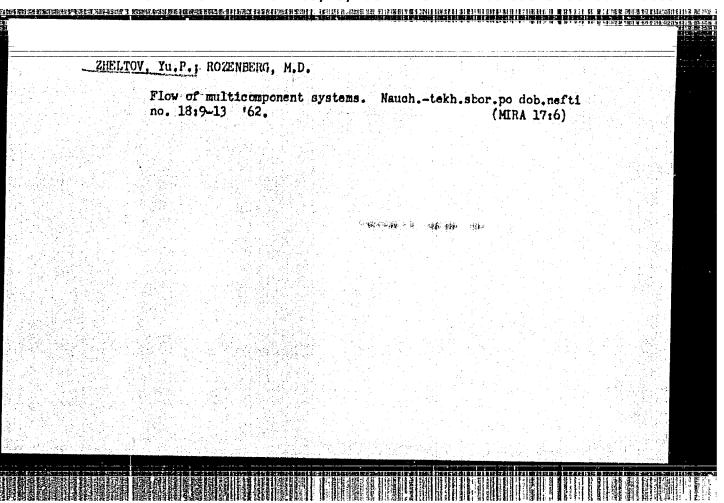
1. Chlen-korrespondent AN SSSR (for Krylov). 2. Vsesoyuznyy neftegazovyy nauchno-issledovatel'skiy institut (for Melik-Pashayev, Rozenberg). 3. Institut mekhaniki AN SSSR (for Nikolayevskiy).

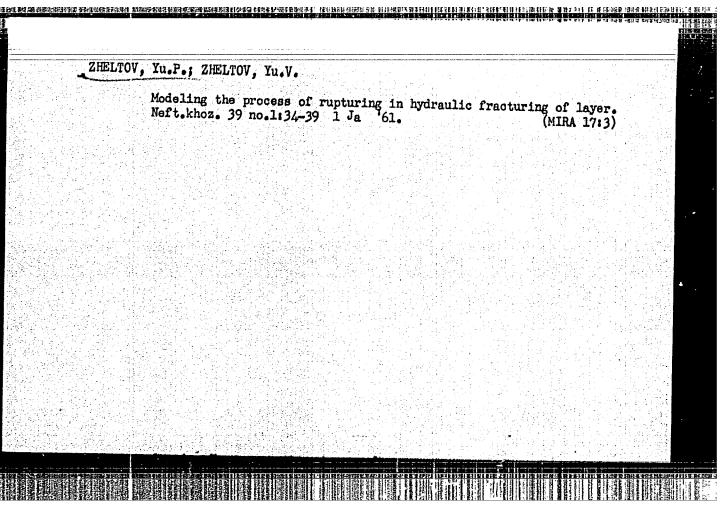


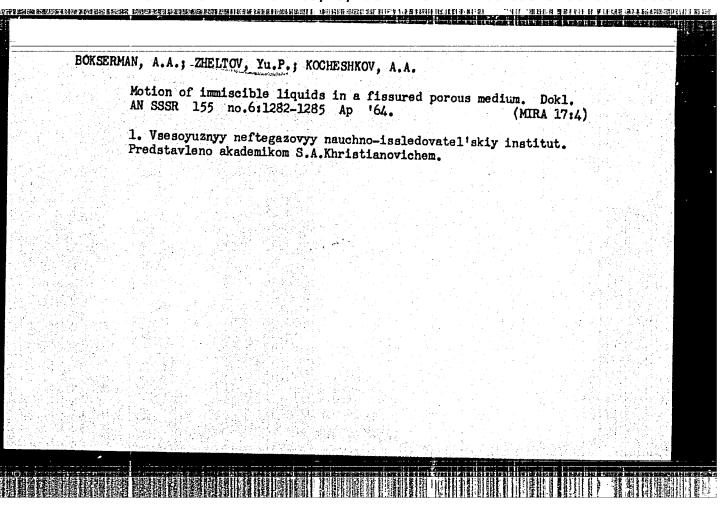
Mixing of mutually soluble fluids with various viscosities during their movement in a porous medium. Nauch.-tekh. sbor. po dob. nefti no.24:34-40 '64. (MIRA 17:10)

1. Vsesoyuznyy neftegazovyy nauchno-issledovatel'skiy institut.

MOV, A.K.; ROZENBERG, M.D.; ZHELTOV, Yu.P.; SHOVKRINSKIY, G.Yu. Motion of multicomponent hydrocarbon mixtures in a porous medium. Nauchtekh. sbor. po dob. nefti no.24:41-43 164. (MIRA 17:10)	
1. Vsesoyuznyy neftegazovyy nauchno-issledovatel'skiy institut.	
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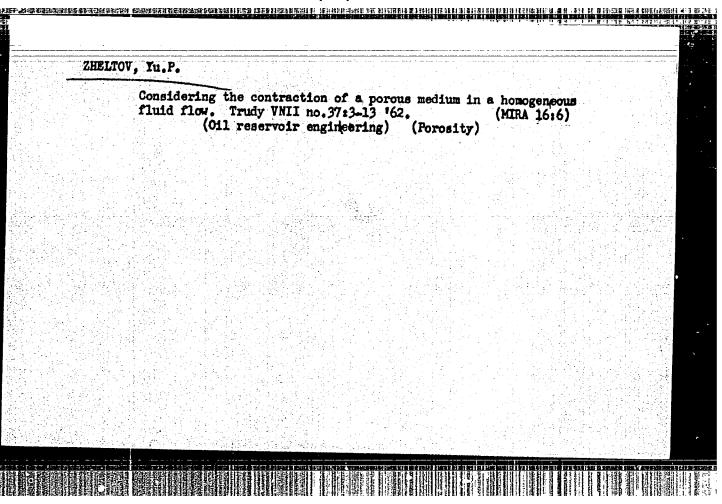
BORISOV, Yu.P.; ZHELTOV, Yu.P.; KRYLOV, A.P.; ROZENBERO, M.D. (Moscow)

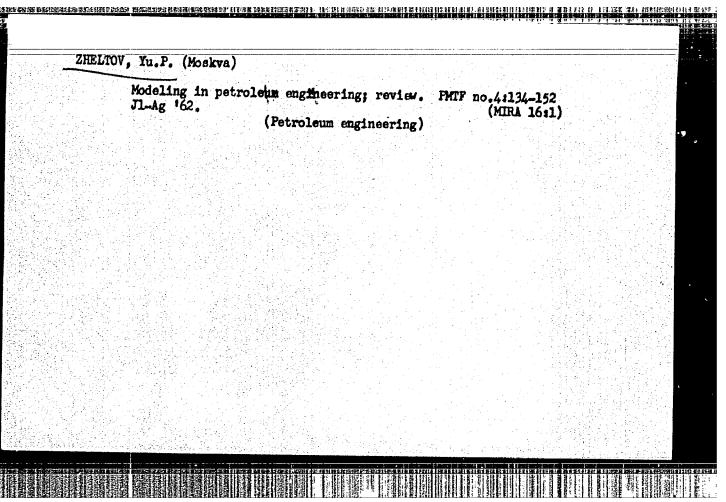
"New problems of underground mechanics in the oil field development"

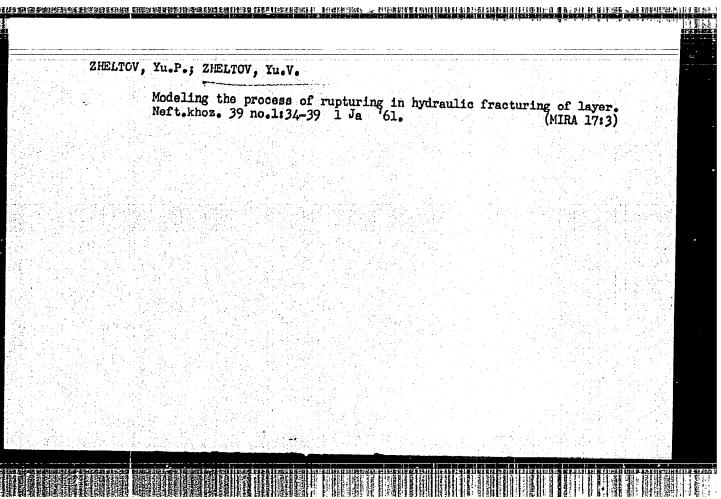
report presented at the 2nd All-Union Congress on Theoretical and Applied

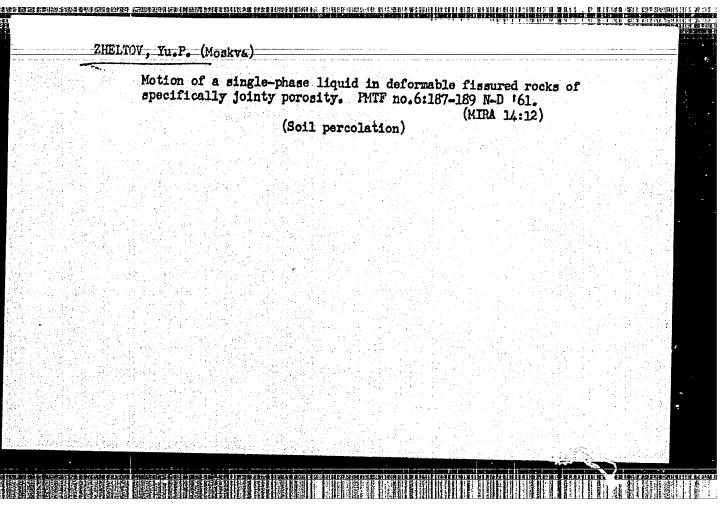
Mechanics, Moscow, 29 January - 5 February 1964

OV, Yu. (Moskva); Propagation of ga	s in fissured rocks.		-139 8-0	
			MIRA 16:1)	
1. Vsesoyuznyy nei (Gas flow)	Ctegasovyy nauchno-i (Rocks-Per	ssledovatel'skij meability)	r institut.	
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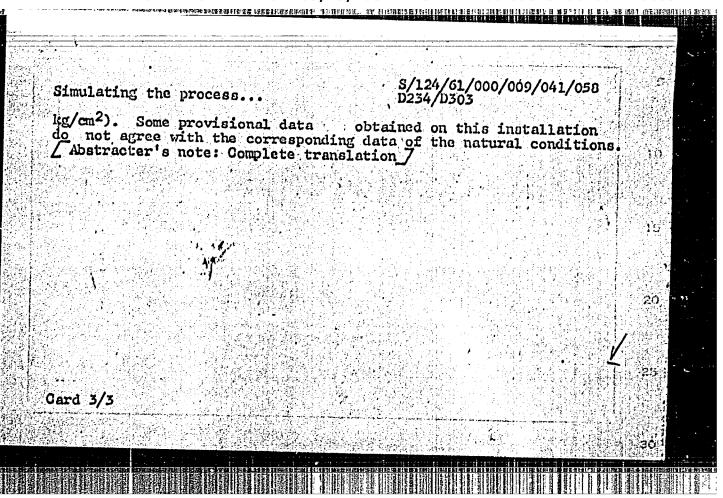


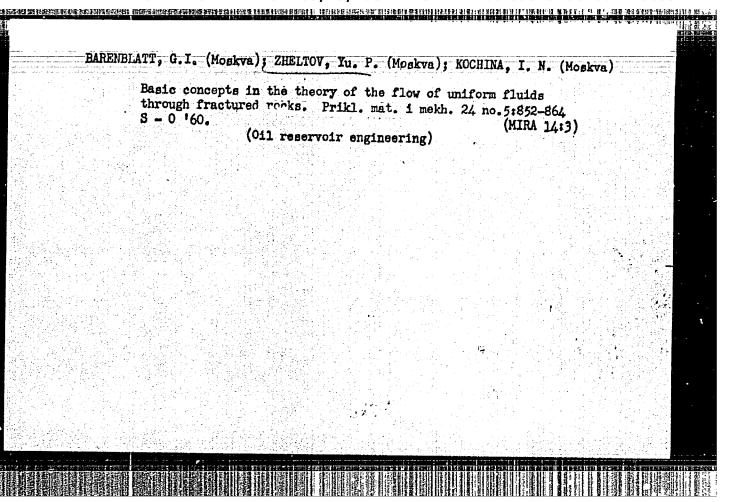




	S/124/61/000/009/041/058 D234/D303	
APTHORS:	Zheltov, Yu.P. and Zheltov, Yu.V.	
TITLE:	Simulating the process of expansion of cracks during hydraulic breaking of a stratum	io
PERIODICAL:	Referativnyy zhurnal. Mekhanika, no. 9, 1961, 18, abstract 9 V154 (Neft. kh-vo, 1961, no. 1, 34-39)	15
thors analyze	A new approach to simulating expansion of cracks draulic breaking of a stratum is described. The authe Helation between parameters characterizing the f a crack in natural conditions and on a model and elation	/ -20
(gh)r =	$(Q\mu)_{H} \left(\frac{1M}{qH}\right)^{3} \left(\frac{E_{H}}{E_{M}}\right)^{2} \left(\frac{qM}{qH}\right)^{3}$	
where Q is th E the Young M	e flow of the liquid, μ - the viscosity of the liquid, odulus of the rock, q - the mine pressure \angle Abstrac-	211
Card 1/3		
	그 생활이 살해 그용원을 한 점점은 원생님의 생님은 사람들은 사람들 그리고 있다. 그 사람들이 되는 것이 되었다는 것이 되었다는 것이 되었다는 것이 없는 것이 없는 것이 없는 것이 없는 것이 없다.	1 4 10 2 1

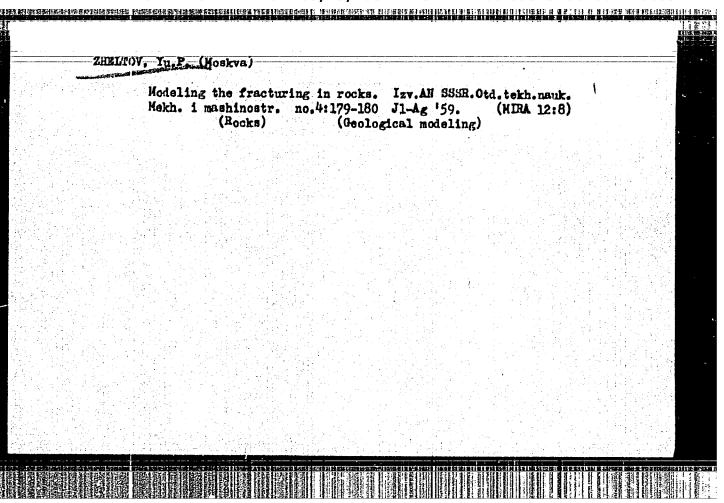
\$/124/61/000/009/041/058 Simulating the process... D234/D303 ter's note: Gornoye davleniye: "mountain pressure" is also possible 7 1 - the length of the crack, the indices H and H refer to natural conditions and model conditions respectively. On the basis of this equation the authors conclude that if linear dimensions of the model are taken to be 1/100 th of the natural dimensions (e.g. the length of the crack) and EM = EH, qM = qH, the processes of crack expansion in nature and on the model will be similar only if the product of the flow and the viscosity of the liquid in the model is 1/1,000,000 of that in nature. The experimental realization of this is very difficult. The opinion of the authors is that a simpler way is to diminish the Young modulus of the material from which the model of the stratum is made. This will lead to a decrease in the mine pressure in the model which is also advantageous for the experiment. On the basis of this reasoning the muthors describe an experimental installation, developed by them for investigating the processes of hydraulic stratum breaking. The principal part of the installation is a block made of porous white rubber which serves as the model of the elastic porous medium (EM = 1.52 Card 2/3





Formation of irrev	versible fractures in rocks Mashinostr, no.6:52-56 N-D	IRY.AH SSS 160. (M)	SR. Otd. IRA 13:12)	
1. Institut geolog	di razrabotki goryuchikh i	.skopayemykh	Akademii	
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TOAT	YA, S.A.; ZHI	LTOV, Yu.P.;	BELYAYEV, B. M.		
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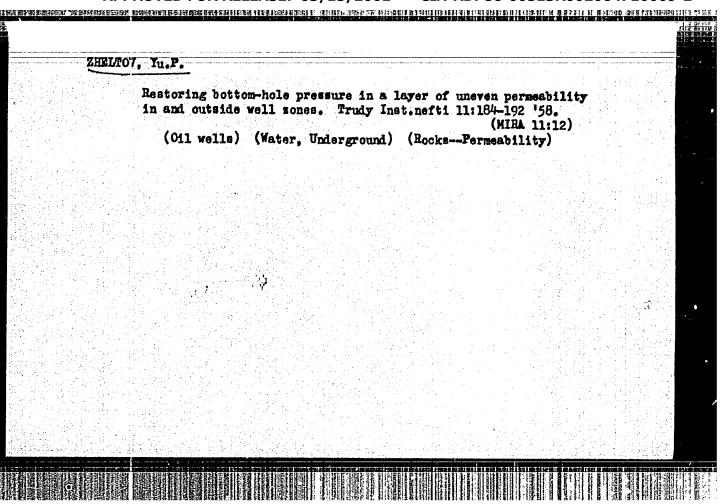
ZHELTOV, Yu. P., Cand Tech Sci -- (diss) "Studies of the meahanism of the hydraulic breaking of stratum." Mos, [Publication of Acad Sci USSR], 1957. 16 pp (Acad Sci USSR, Inst of Petroleum), 160 copies (KL, 52-57, 106)

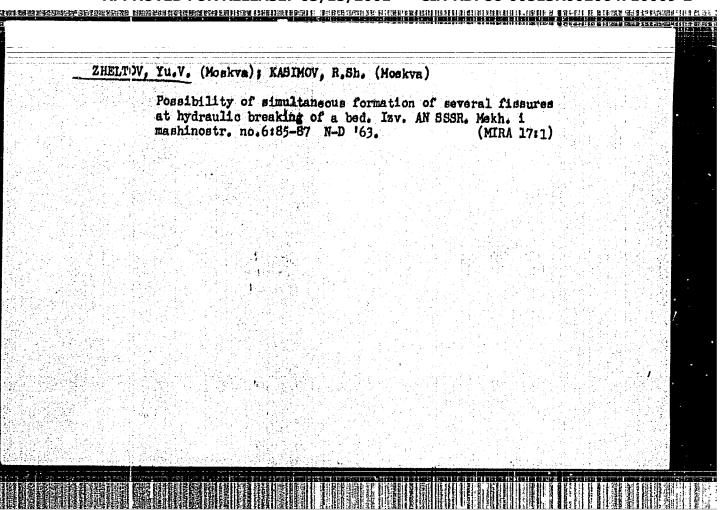
- 49 -

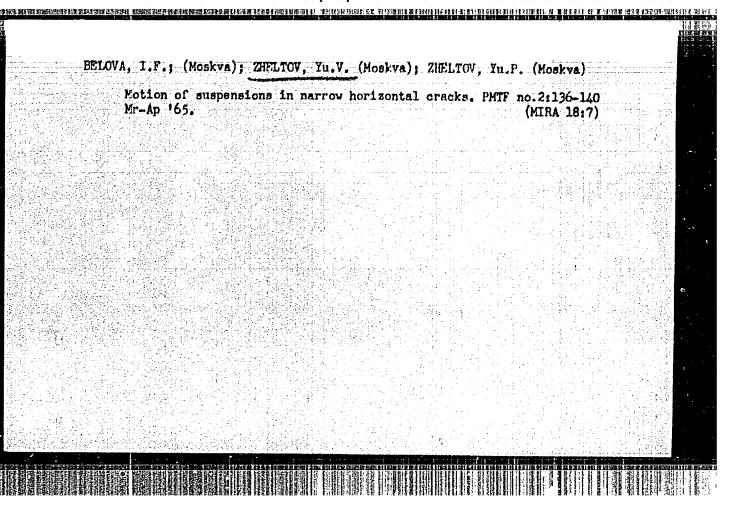
DOROZHKIN, V.S.; ZHELTOV, Yu.V.; ZHELTOV, Yu.Y. (Moskva).

Hotion of mixture of liquid and sand in a well and in a crack during hydraulic fracture of an oil-bearing stratum. Isv. AN SSSR, Otd. tekh. nauk. no.ll:37-42 N '58. (NIRA 12:1)

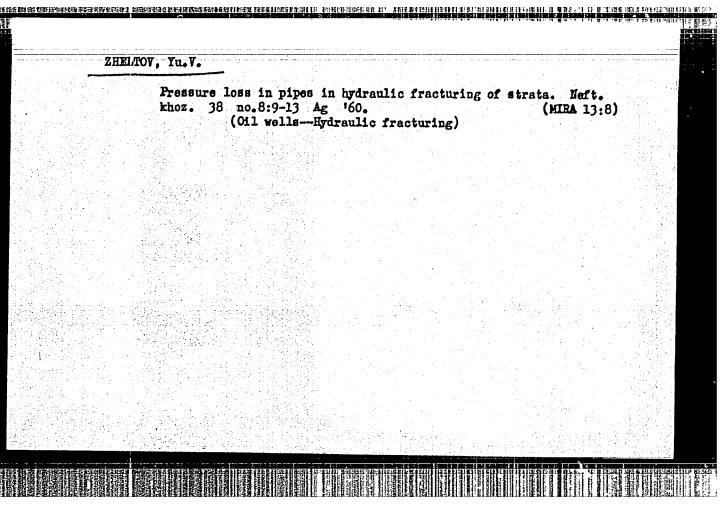
1.Institut nefti AN SSSR. (Oil wells--Hydraulic fracturing)
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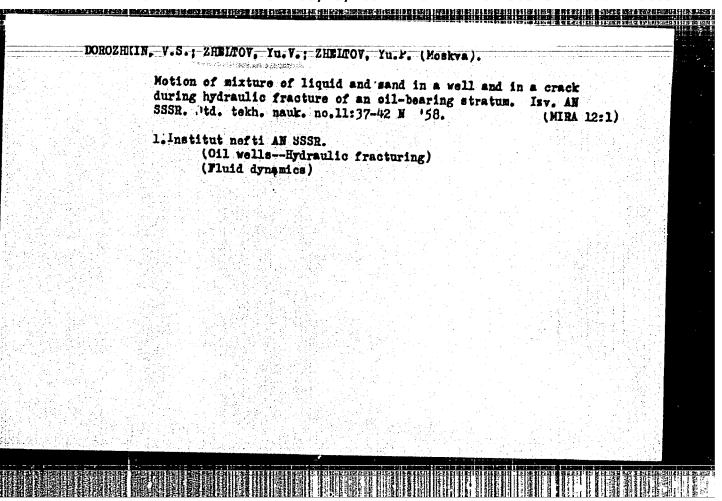
KASIMU	CI, R.Sh.; ZHELTOV, Yu.V.
	Modelling hydraulic fracturing with fractured reservoi .rocks. Nauchtekh. sbor. po dob. nerti no.22:44-50 '64. (MIRA 17:9)
	1. Institut geologii i razrabotki goryuchikh iskopayemykh AN SSSR.
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KOCHESHKOV, Aleksandr Anatol'yevich; ZHELTOV, Yuriy Vasil'yevich;
TOSUMOV, Eduard Mikhaylovich; ANGELOFULO, Oleg Konstantinovic;
KOVALEV, A.C., vneshniy red.; MAKLAKOVA, L.F., ved. red.;
YAKOVLEVA, Z.L., tekhn. red.

[Practices in well completion in the United States]Opyt zakanchivaniia skvashin v SShā. Moskva, Gostoptekhizdat, 1962.
171 p. (MIRA 16:2)

(United States—Oil fields—Production methods)



SOV/24-58-11-11/42

Dorozhkin, V. S., Zheltov, Yu. V. and Zheltov, Yu. P. (Moscow)

TITLE:

AUTHORS:

On the Movement of a Mixture of Liquid with Sand in the Well and in the Crack During Hydraulic Fracture of an Oil Bearing Stratum (O dvizhenii smesi zhidkosti s peskom v skvazhine i treshchine pri gidravlicheskom

razryve neftenosnogo plasta)

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PERIODICAL: Izvestiya Akademii Nauk SSSR, Otdeleniye Tekhnicheskikh Nauk, 1958, Nr 11, pp 37-42 (USSR)

ABSTRACT: In the process of hydraulic breaking up of an oil bearing stratum sand penetrates invo the cracks which form in the rocks and the penetrated sand prevents the closing together of these rocks when the liquid pressure is reduced. Until the sand reaches the crack it has to travel a considerable distance along the vertical tube. Therefore, for selecting a rational technology of the process of breaking up a stratum it is important to know the hydro-mechanical picture of motion of a mixture of liquid with sand, both along the crack and in the vertical

Special experiments were carried out to verify whether available relations are applicable for such Card1/2

On the Movement of a Mixture of Liquid with Sand in the Well and in the Crack During Hydraulic Fracture of an Oil Bearing Stratum

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coarsely disperse suspensions as mixtures of liquid and sand; the experimental set-up is shown diagrammatically in the sketch, Fig.1. The basic liquid used in the experiments was glycerine and for obtaining various viscosities the glycerine was diluted with water; furthermore, sulphite-alcohol distillery refuse was used, which is frequently applied in the oil industry as a liquid for breaking up strata. As sand, quartz sand with the fractions 0.6-0.85 mm was used and in some of the experiments sand of other fractions was used. Curves calculated on the basis of the relations expressed by Eqs.(2.1), (2.8) and (2.11) are plotted in the graph, Fig.6; in the same graph the values determined in the here described experiments are also plotted. There are 6 figures and 1 Soviet reference.

ASSOCIATION: Institut nefti AN SSSR (Oil Research Institute, Ac.Sc. USR)
SUBMITTED: May 9, 1958

Card 2/2

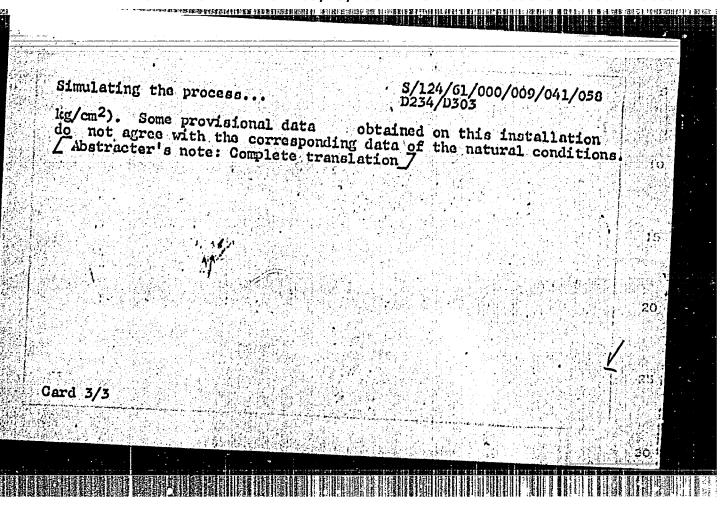
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MUTHORS:	Zheltov, Yu.P. and Zheltov, Yu.V.
TITLE:	Simulating the process of expansion of cracks during hydraulic breaking of a stratum
PERIODICAL:	Referativnyy zhurnal. Mekhanika, no. 9, 1961, 18, abstract 9 V154 (Neft. kh-vo, 1961, no. 1, 34-39)
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	나 들어가 나는 사람들은 동생 이 전경에서 사람들 중심 및 전에 들었다. 상대 변화하는 이 사이 가는 이 그 사이 가는 그는 그는 그가 되는 것이다. 나를 가서 불렀다면 중했다. 중국

Simulating the process...

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ter's note: Gornoye davleniye: "mountain pressure" is also possible / 1 - the length of the crack, the indices H and H refer to of this equation and model conditions respectively. On the basis the model are taken to be 1/100 th of the natural dimensions of the length of the crack) and E_M = E_H, Q_M = Q_H, the processes of crack expansion in nature and on the model will be similar only if model is 1/1,000,000 of that in nature. The experimental realization of this is very difficult. The opinion of the authors is that a simpler way is to diminish the Young modulus of the material from which the model of the stratum is made. This will lead to a decrease in the mine pressure in the model which is also advantageous for the experiment. On the basis of this reasoning the authors describe an experimental installation, developed by them for investigating the processes of hydraulic stratum breaking. The principal part of the installation is a block made of porous white rubber which serves as the model of the elastic porous medium (E_M = 1.52)

Gard 2/3

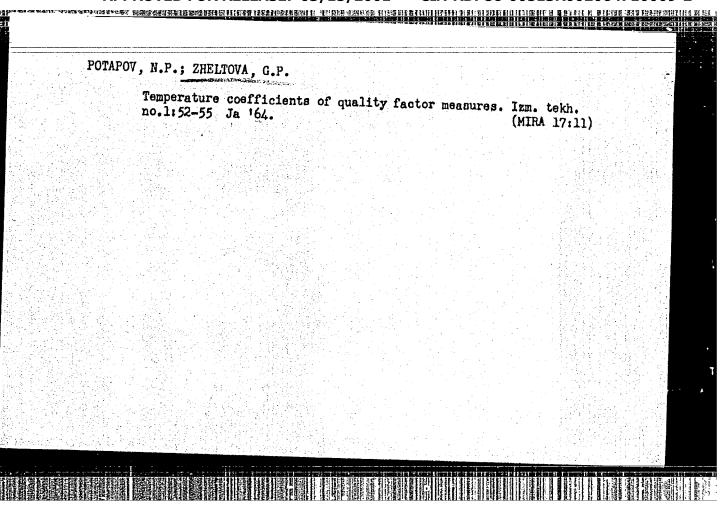


ZHEITOVA, A.y., aspirant; BARAMBOYM, N.K., doktor khimicheskikh nauk, prof.

Studying the properties of the dispersions of protein copolymers.

Nauch. trudy MT'IP no.30:18-25 '64. (MIRA 18:6)

1. Kafedra fizicheskoy i kolloidnoy khimii Moskovskogo tekhnologicheskogo instituta legkoy promyshlennosti.



DEVYATNIN, V.A.; SOLUNINA, I.A.; FEDOROVA, G.A.; MEL'NIKOVA, Ye.Ya.;

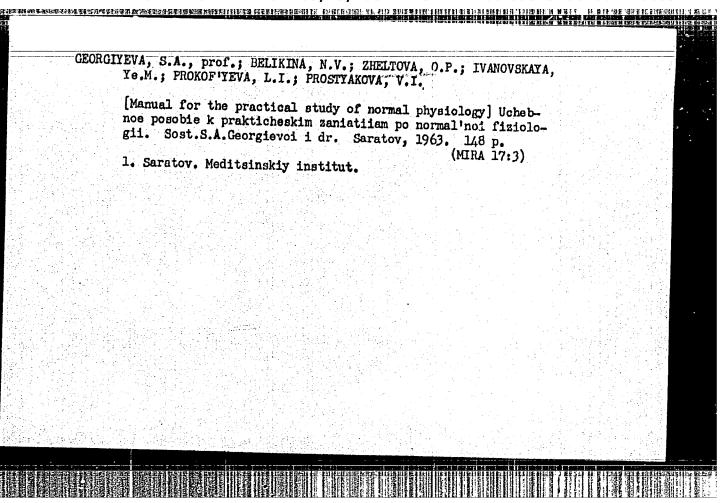
SAMSONOVA, G.S.; ZHELTOVA, I.S.

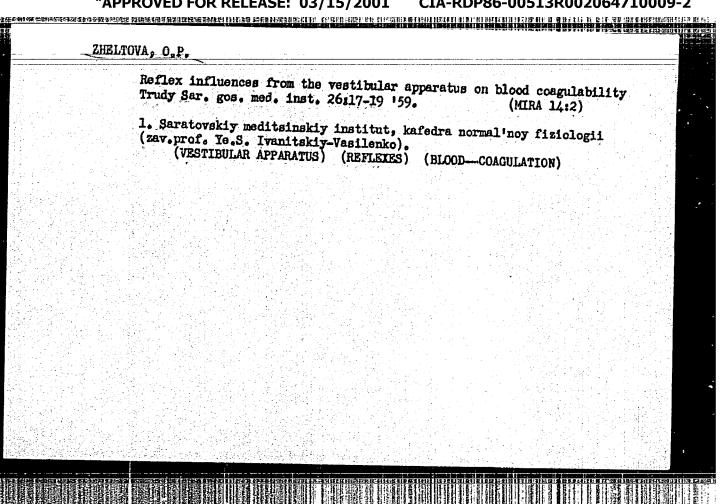
Vitamin loss in cooking. Trudy VNIVI 8:93-96 '61. (MIRA 14:9)

1. Khimiko-analiticheskaya laboratoriya Vsesoyuznogo nauchno-issledovatel'skogo vitaminnogo instituta.

(Vitamins)

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ZHELTOVA, O. P., Candidate Med Sci (diss) -- "Reflex influence of the vestibular apparatus on the coagulability of the blood". Saratov, 1959. 11 pp (Min Health RSFSR, Saratov State Med Inst), 200 copies (KL, No 25, 1959, 140)

等是最大的研究的研究,但可能是多多性中国研究的是否在4.3 计15元章 15元章 对特别的现在分词,"我,我们是不是一个一个一个一个一个一个一个一个一个一个一个

ZHELTCVA, R.R.

36863. Klimaks i glpertonicheskaya bolezn'. Trudy Uzbek. gos. nauch.-issled.
inita kurortologii i fizioterapii im. Semashko, sb. 11, 1949, c. 218-23

SO: Letopis' Zhurnal'Nykh Statey, Vol. 50, Moskva, 1949

(MIRA 15:6)

ZHELTOVA, S.M. Histogeneis of the fibrous cartilage of intervertebral disks during intrauterine development of rabbits. Dokl. AN SSSR.

144 no.6:1373-1376 Je 162.

1. Institut morfologii zhivotnykh im. A.N.Severtsova Akademii nauk SSSR. Predstavleno akad. Yu.A.Orlovym.

(Embryology-Mammals) (Intervertebral disk)

KHOMYAKOV, P.P.; ZHELTOVA, V.I.; ADLER, Yu.P.; NALIMOV; V.V. Study of heat conductivity of distillates formed during chlorination of titanium slag in the melt. Zav.lab. 29 no.3:330-331 163. (MIRA 16:2) 1. Gosudarstvennyy nauchno-issledovatel'skiy i proyektnyy institut refikometallicheskoy promyshlennosti. (Titanium sompounds) (Chlorination) (Heat capacity)

<u> 39797-66 __EVIT(m)/EVIP(ላ)</u> RM/GD=2 ACC NR: AP6012080 SOURCE CODE: UR/0062/65/000/005/0895/0898 AUTHOR: Senyavina, L. B.; Sheynker, Yu. N.; Zheltova, V. N.; Dombrovskiy Shevchuk, N. I.; Kabachnik, M. I.; Mastryukova, T. A.; Melent yeva, T. A. ORG: Institute of the Chemistry of Natural Compounds, AN SSSR (Institut khimii TITLE: Infrared spectra of aroylmethylenetriphenylphosphoranes and their salts SOURCE: AN SSSR. Izvestiya. Seriya khimicheskaya, no. 5, 1965, 895-898 TOPIC TAGS: IR spectrum, organic salt, organic phosphorous compound, electron donor, The integral intensities of the carbonyl absorption in the infrared ABSTRACT: spectra of aroylmothylenetriphenylphosphoranes (in which the carbonyl group is bonded to a phenyl ring) and their salts were measured. The data were considered from the standpoint of electron donor and electron acceptor properties of the phosphorus atom and the aromatic rings of the aroyl group, as well as the influence of substituents in the aromatic ring on the absorption intensity. The addition of an aromatic group to the carbonyl in phosphoranes led to a decrease in the frequency and intensity of the valence vibration of the carbonyl group in comparison with the corresponding aliphatic derivatives, evidently as a result of the functioning of the aromatic ring as an electron acceptor, competing with the carbonyl group for electrons from the strong electron-donor phosphorus atom. The frequency and in-UDC: 543.42

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KASATKINA, I.D.; ZHELTOVA, Ye.G.

Methods of selecting Aspergillus niger mutants with an altered capacity to synthesize organic acids. Mikrobiologiia 34, no.3:511-518 My-Je '65. (MIRA 18:11)

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Nethods of determining the volume and the composition of the U.S.S.R. metal stock by Indo. Republics and economic regions.

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Comparative data of the biological and colorine tric methods in the control of the activity of preparations containing cardiac glycceides. Apt. delo 14 no.6:70-72 N-D 165.

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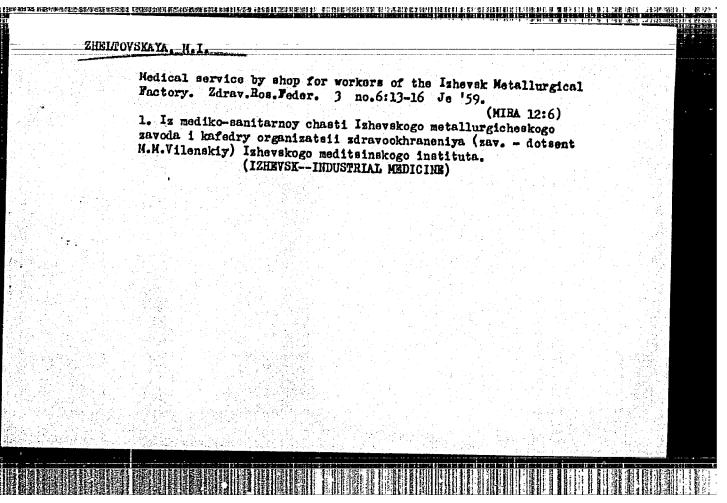
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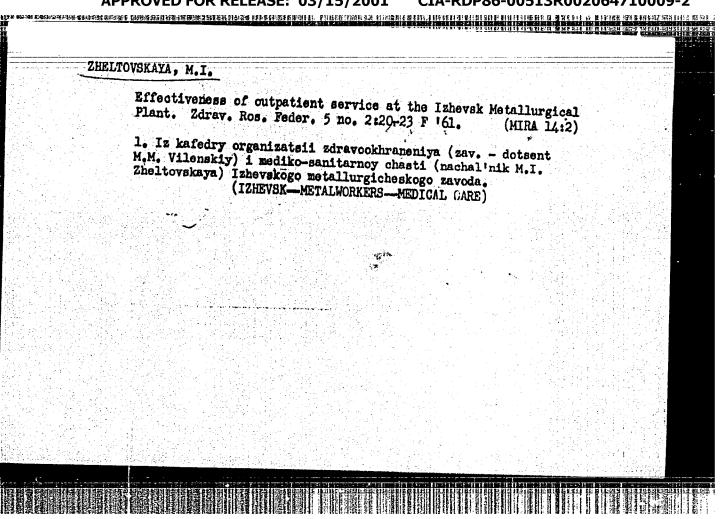
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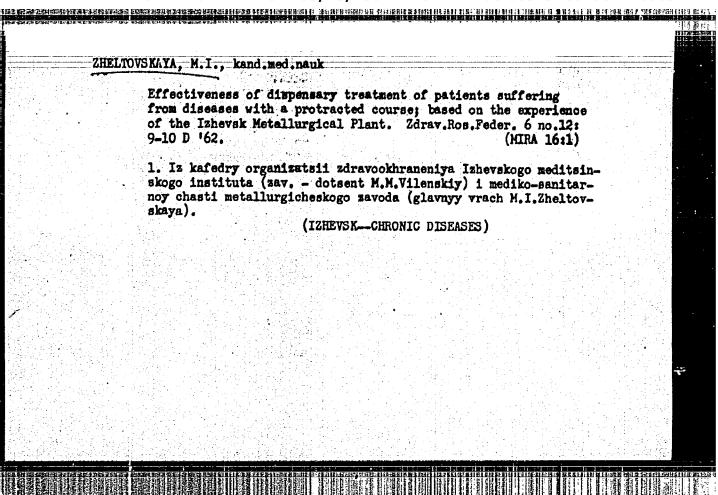
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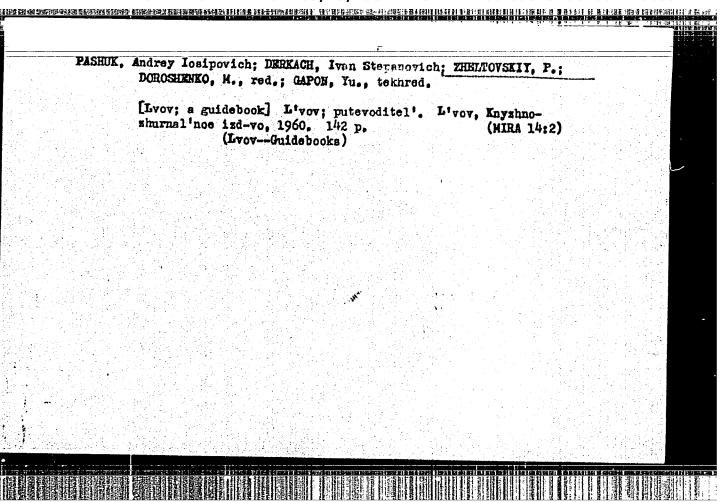
AVERKINA, N.; ZHELTOVSKAYA, L.S.; VOROB'YEV, Yu.A.;

Manufacture and investigation of semifinished products from high-strength and heat-resistant VAD23 aluminum alloys. Alium. splavy no.3:194-200 64. (MIRA 17:6)







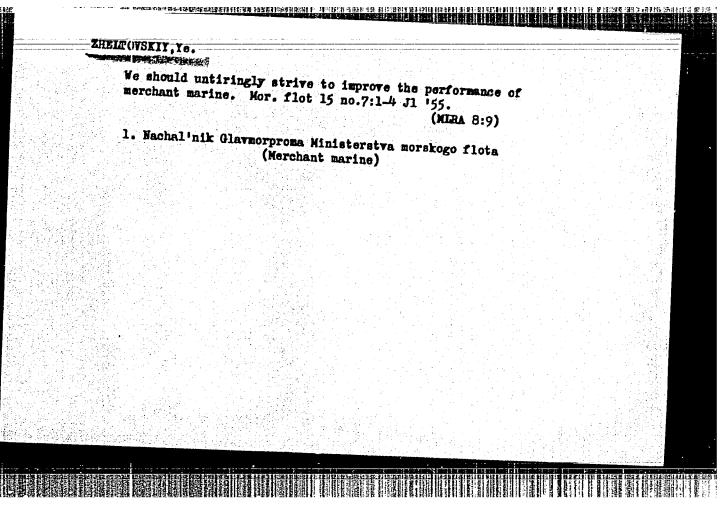


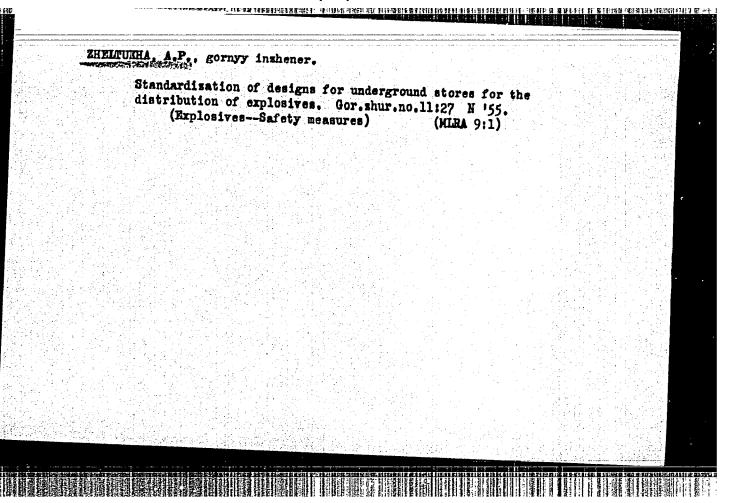
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	1. Glavnyy mekhanik ledokola "Leningrad" Murmanskogo parokhodstva.
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Country Bulgarie Catogory ! Human and Animal Physiology, Circulation Abs. Jour. 1 Ref Zhur Biol, No. 2, 1959, No. 8087 difficor : : Zhelyazkov, D.; Angolov, A.; Nikolov, A.; Kazakova, A; Chu-Institut. ; Ieva, A.; Mushmov, D; Ignatova, E; Nikolova, M.; Minchev, T. Titlo The Effect of the Bulgarian Synthetic Estrogenic Preparation "Vitestrol" on Blood Pressure. Orig Pub. : Izv. Otd. biol, i med. nauki. Bolg. AN. Ser. eksperim. biol. 1 med., 1957, No. 1, 47--55 Abstract Vitestrol was injected in doses of 0.5, 1.3 and 5 mg/kg into normal, atropinized, vagotomized and decerebrate cats, as well as into cats with carotid sinuses removed. Vdtestrol lowered blood pressure by 16--35% (depending upon the dose) within 72--395 seconds. There were no substantial differences between the normal and the operated animals. It is suggested that vitestrol acts directly upon the smooth muscle elements of the vessel walls .-- S.B. Stefanov.

"The Importance of the Works of E. K. Petrova for Dermatelogy." Vestnik vererologii i dermatologii (Eulletin of Venerology Dermatology); No 1, January-February 1954, (biomper), Koscow.	HELTOVSKIKH, R. S.					
Vestnik vererologii i dermatologii (Fulletin of Venerology Dermatology); No 1, January-February 1954, (Hiomper), Loscow.	"The Importance of	the Norks of E.	K. Petrova for De	rmatclogy."		
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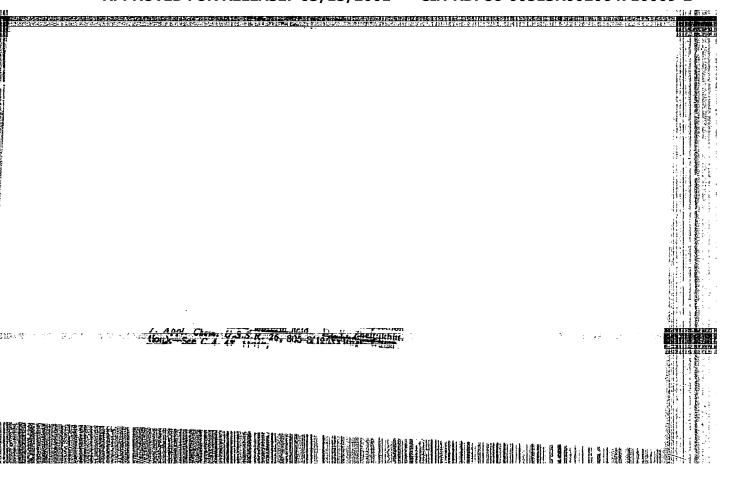


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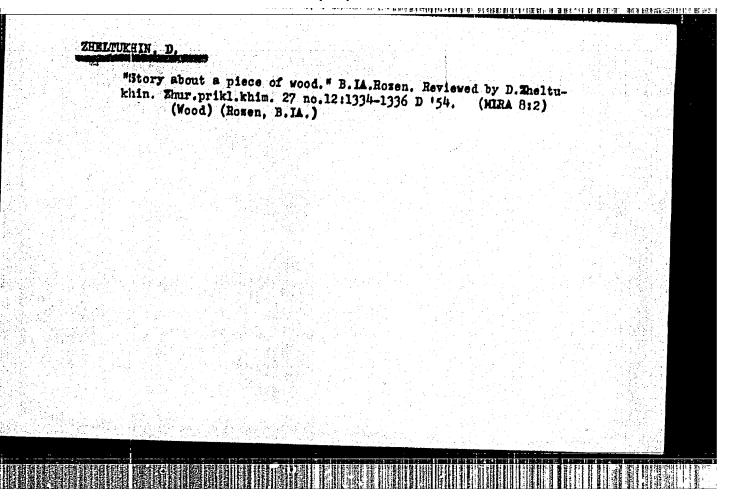
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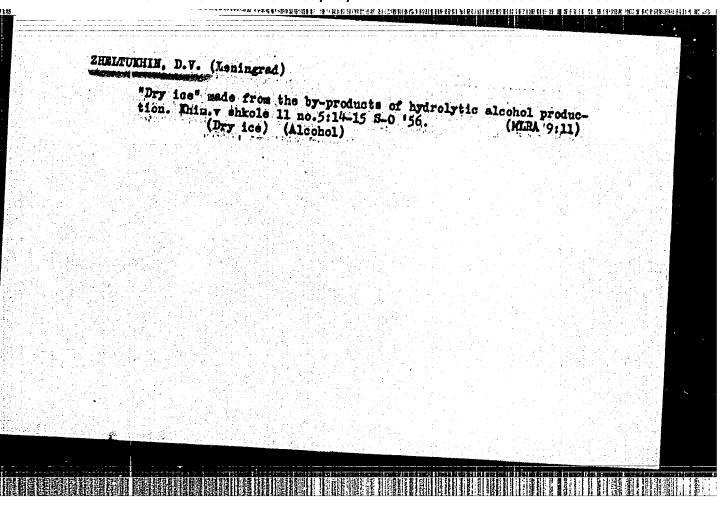
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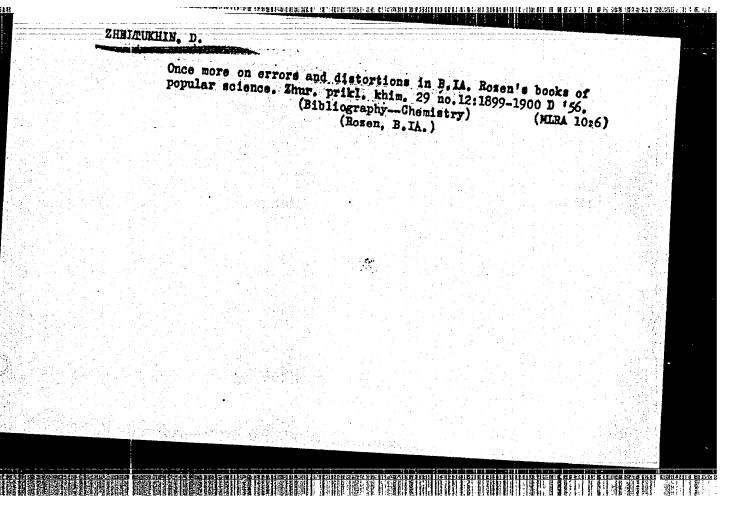


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ZHELTUKHIN, D.V., kandidat tekhnicheskikh nauk.

Recent developments in the chemistry and technology of lignin.

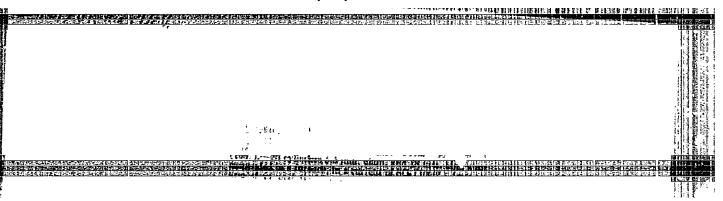
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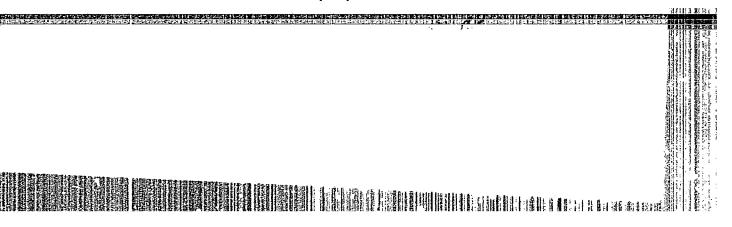
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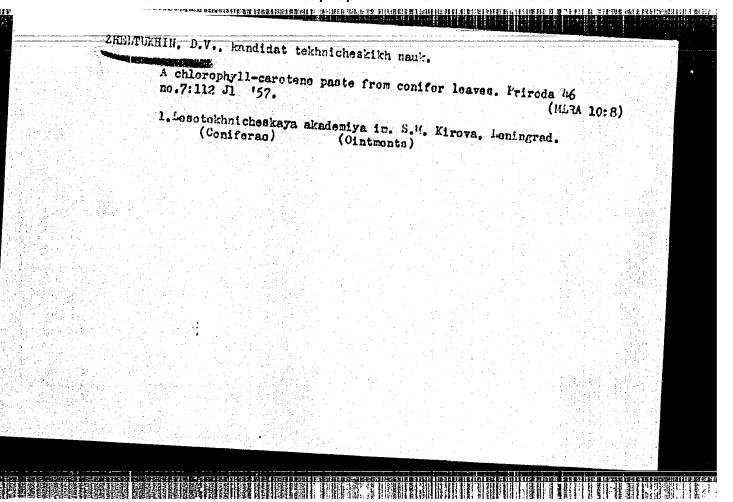
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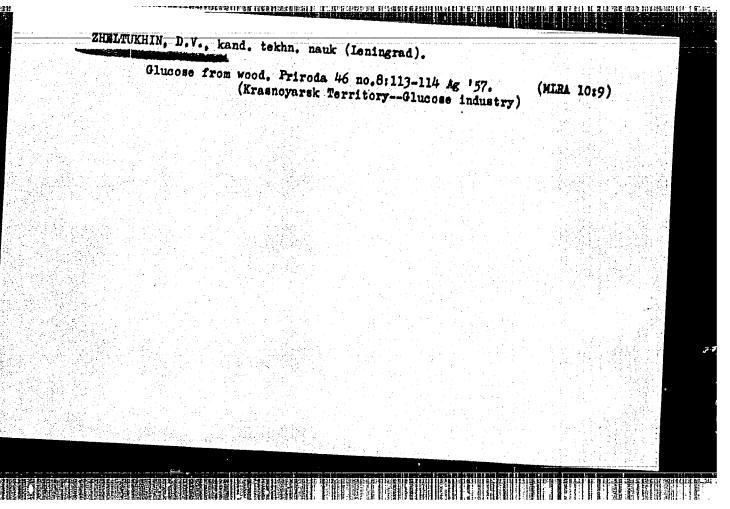
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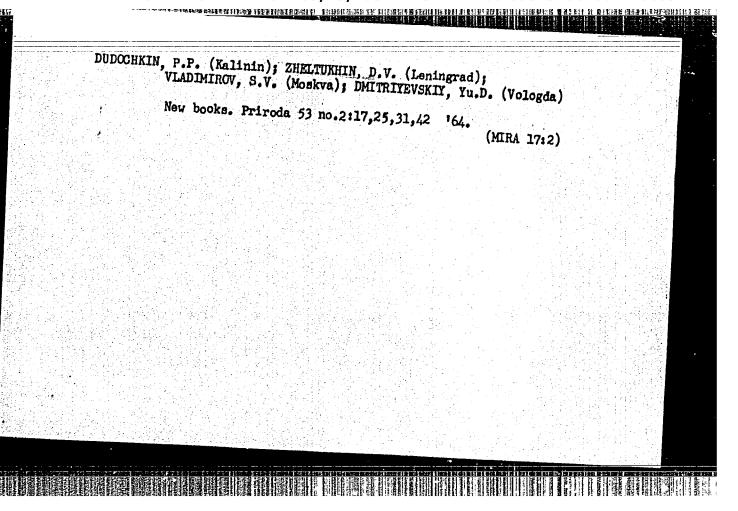
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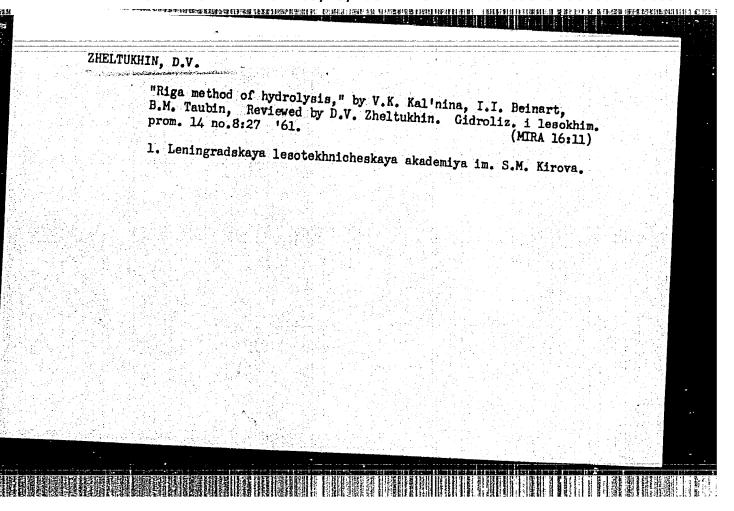


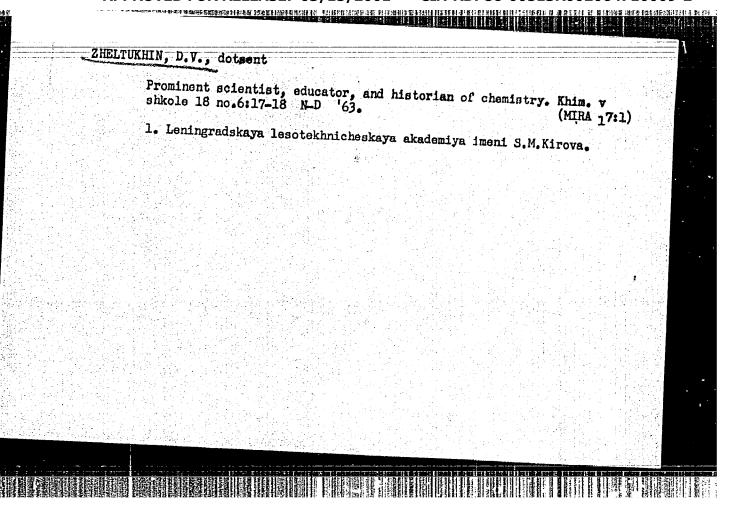


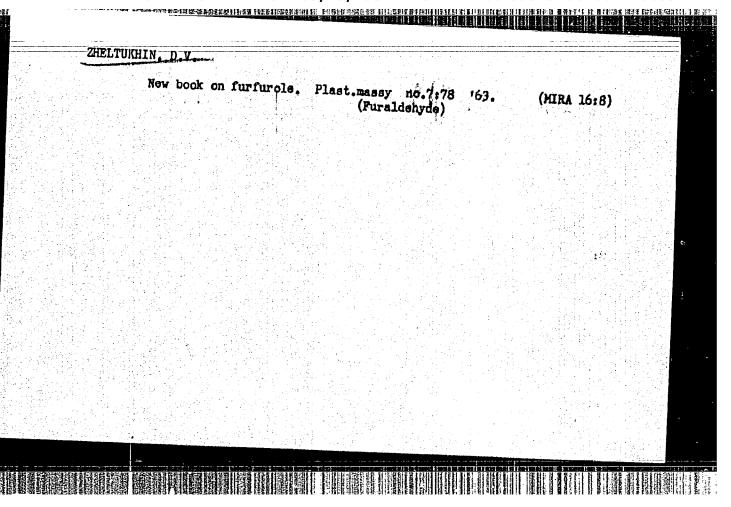


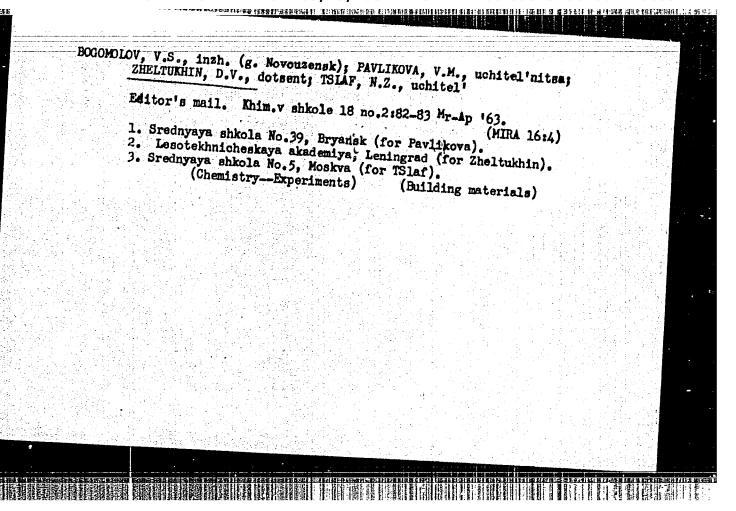


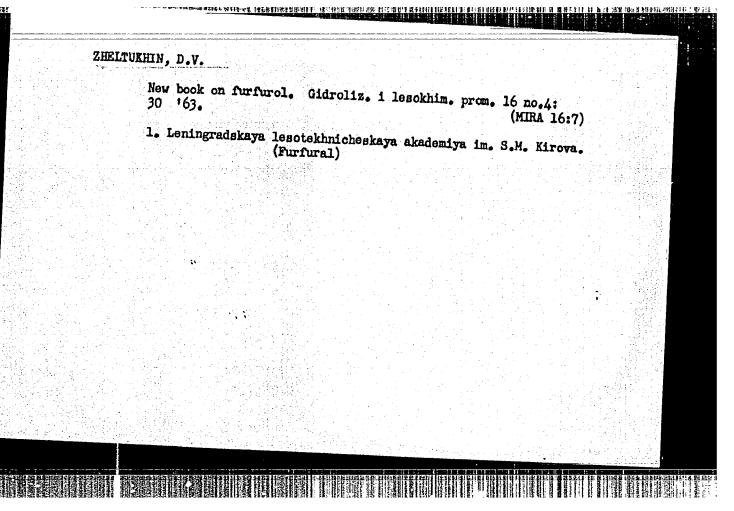


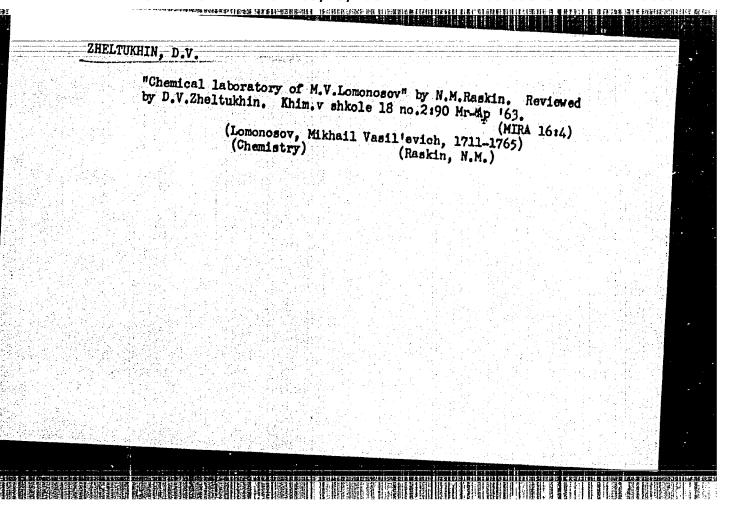


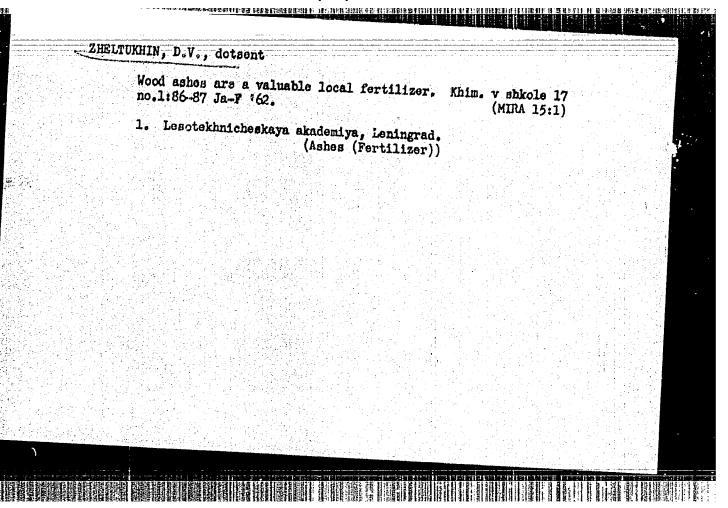


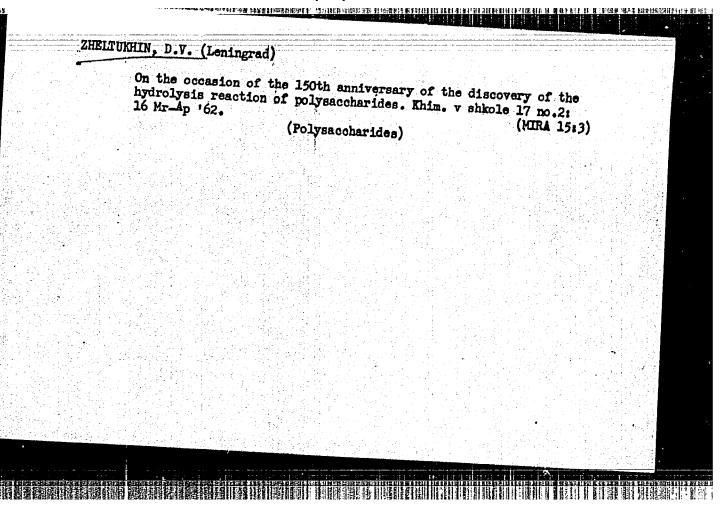


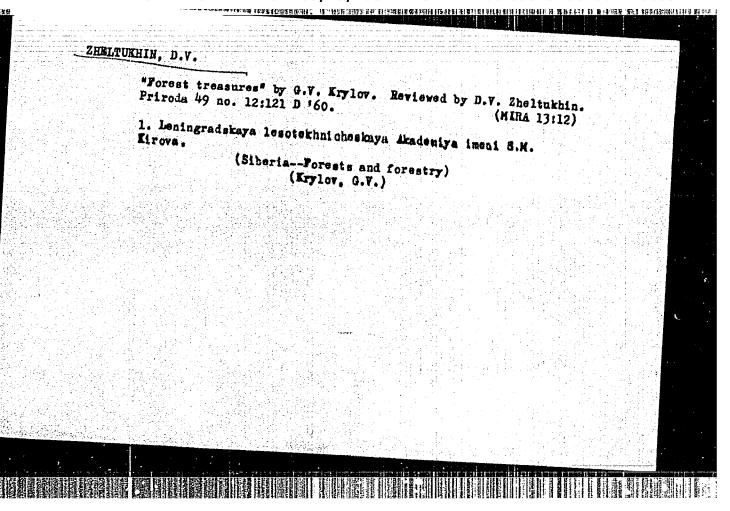


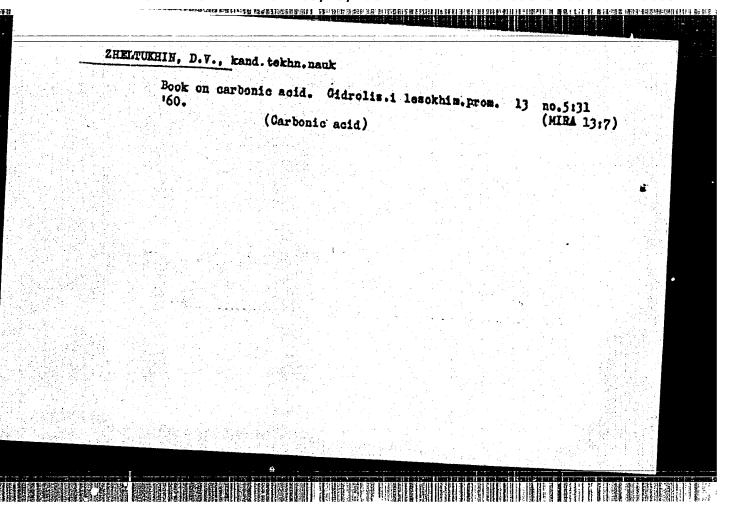




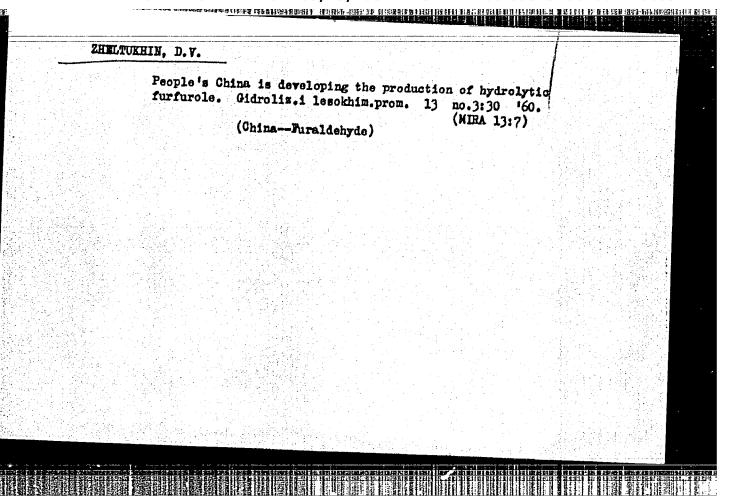


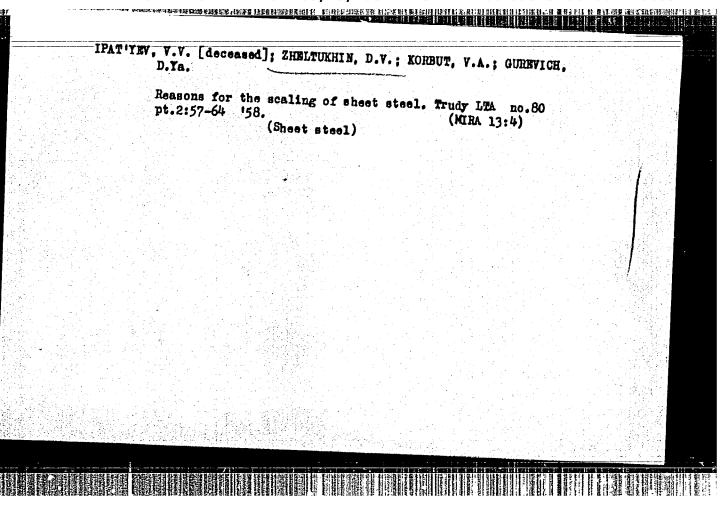


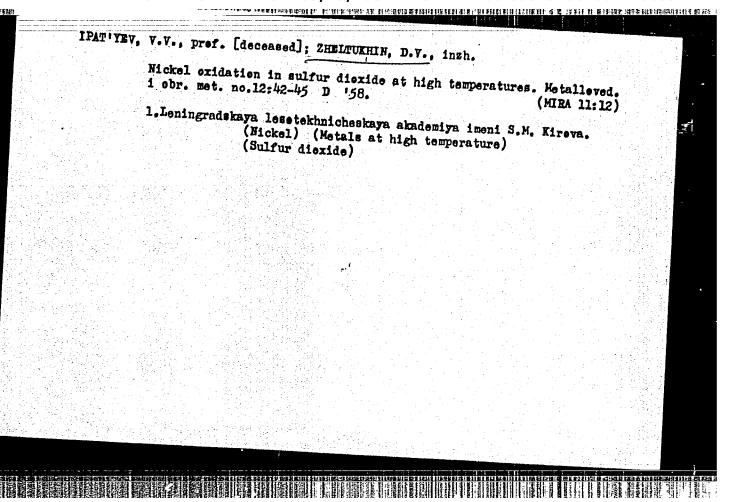




ZHELT	CUKHIN, D.V.
	Distinguished scientist, teacher, and chemistry historian; on the 25th anniversary of B.N.Menshutkin's death. Zhur.ob.khim. 33 no. (MIRA 17:3)







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ZHELTYKHIN, D.V., dots.; NIKITIE, V.M., prof., red.; OHUBE, A.E., prof., red.;

GUBIN, M.M., prof., red.; OOYMAN, M.S., tekhn. red.

[S.M.Kirov Academy of Lumbering in Leningrad; a handbook]

Leningradekaus ordens Lenine lesetekhnicheskais akademiis imeni
1956. 36 p.

[MIRA 11:11]

1. Russia(1923- U.S.S.R.) Hinisterstvo vysshego obrazovaniya.

(Leningrad--Lumbuxing--Study and teaching)
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Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 4, p 194 (USSR)

AUTHORS: Ipat'yev, V. V., Zheltukhin, D. V., Kleymenova, L. I.

TITLE: The Kinetics of Copper Scaling by Atmospheric Oxygen and Sulfur

Dioxide at Elevated Temperatures (O kinetike okalinoobrazovaniya medi s kislorodom vozdukha i sernistym gazom pri vysokikh temperaturakh)

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ABSTRACT: Intermittent weighing is used to study oxidation (O) processes occurring in Cu in air and in SO2 during a five-hour period at 700, 800, and 900°C. It is shown that the O process follows a parabolic law and that the O rate of Cu in SO₂ is lower than in air, and that this difference increases with rise in temperature. In both cases, the scale consists chiefly of the Cu2O phase. Constants for the rate of scale formation in the media and at the temperatures and holding times investigated have been calculated.

1. Copper--Oxidation--Analysis Card 1/1

G. M.